

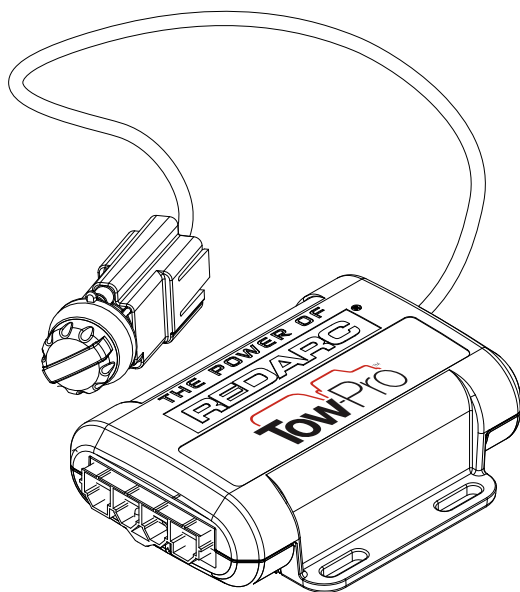
INERTIA SENSING
(PROPORTIONAL)

THE POWER OF

REDARC®

Tow-Pro™

Trailer Brake Controller



AL-KO ESC
APPROVED

TOW-PRO™ (EBRH-ACC) TRAILER BRAKE CONTROLLER

The Tow-Pro™ is an electric trailer brake controller designed to suit most common trailer braking applications whilst requiring minimal dash space and being simple to install and operate. The Tow-Pro™ offers selectable Automatic or User Controlled trailer braking modes allowing the user to choose the braking style depending on the road or terrain conditions, vehicle type, or driver preference. The unit is able to operate both electric and electric/hydraulic trailer brakes without manual selection and will operate from either 12V or 24V vehicle systems without the need for extra components or wiring. The unit is also ADR compliant when installed as directed. The unit is **AL-KO ESC Approved** from manufacturing serial number 14080000-000 onwards

WARNINGS & SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS - This manual contains IMPORTANT SAFETY INSTRUCTIONS for the Tow-Pro™ Brake Controller. DO NOT OPERATE THE CONTROLLER UNLESS YOU HAVE READ AND UNDERSTOOD THIS MANUAL AND THE CONTROLLER IS INSTALLED AS PER THESE INSTALLATION INSTRUCTIONS.

WARNING

ENSURE THAT YOUR TRAILER BRAKES ARE INSTALLED AND ARE OPERATING CORRECTLY:

IMPROPERLY INSTALLED AND/OR FAULTY TRAILER BRAKES CAN CAUSE ERRATIC VEHICLE OR TRAILER BEHAVIOUR WITH THE POTENTIAL TO CAUSE A ROAD ACCIDENT. FOR THIS REASON, IT IS OF UTMOST IMPORTANCE THAT YOUR TRAILER BRAKING SYSTEM BE INSTALLED/MAINTAINED BY A QUALIFIED INSTALLER.

ALWAYS CHECK BRAKES AT LOW SPEED EACH TIME A TRAILER IS ATTACHED TO YOUR VEHICLE.

CAUTION

1. Ensure that the Tow-Pro™ is mounted securely in a fixed location. Failure to mount in a fixed location will result in inaccurate braking force measurements and incorrect braking of the trailer.
2. Ensure that the Tow-Pro™ is installed inside the vehicle and away from any environmental conditions that may cause damage, including submersion in water, salt spray and humidity. Contact with these conditions can cause damage to the unit's circuitry and may cause erratic trailer braking.
3. Fuses or Circuit breakers of appropriate rating must be installed to protect the vehicle system. Please refer to the installation instructions on page 4 for specific instructions on where to install Fuses or Circuit breakers and for appropriate Fuse or Circuit Breaker ratings. Fuses must be installed as close as possible to the battery.
4. Ensure that the cable used to install the Tow-Pro™ is of adequate thickness to supply the required current to operate the trailer brakes. Incorrect wiring can result in overheated wires and may cause injury to persons, damage to the Tow-Pro™ and/or damage to property.
5. The Tow-Pro™ is suitable for all trailers with electric brakes of up to three axles (2 axles for 24V). Note that for trailers above 4.5t gross, special testing is required under Australian Design Rules. For these trailers, please consult with an automotive safety engineer before using the Tow-Pro™.

NOTICE

1. Ensure that a correct grounding point is used. Vehicles often have ungrounded metal reinforcements under the dash and these points are not suitable grounds. Bad grounding of the unit will result in poor or no operation.
2. The Tow-Pro™ does not act as a trailer lights voltage converter. The Tow-Pro™ is designed to operate the trailer brake lights under certain conditions. If the trailer brake lights require a different voltage to the input from the vehicle damage to the trailer brake lights may result.
3. When installing the Tow-Pro™ Remote Controls to a thin panel, washers are recommended to reinforce the structure of the panel.

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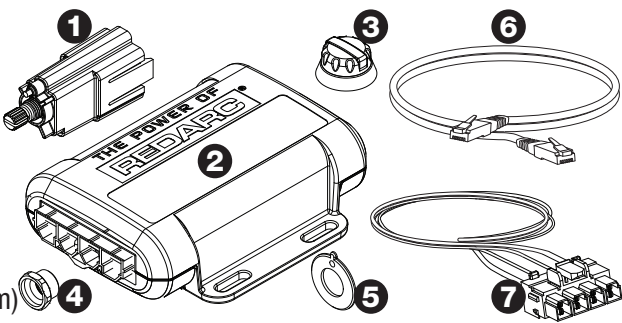
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SPECIFICATIONS

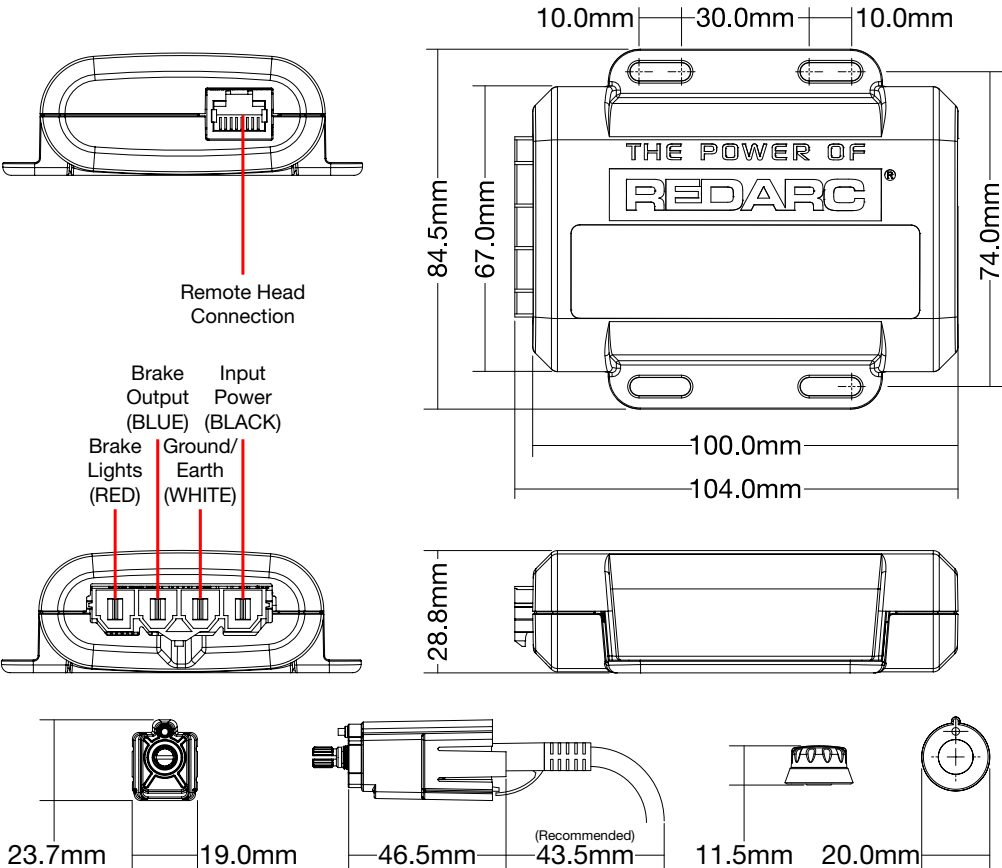
Part Number	EBRH-ACC	
Nominal Input System Voltage	12V	24V
Operating Voltage	9V - 32V	9V - 32V
Brake Input Signal Voltage	5V - 24V	5V - 24V
Brake Coil Voltage	12V	12V
Max. Trailer Axles	3 Axles	2 Axles
Nominal Current Draw	18A	12A
Max. Rated Current	25A	25A
Standby Current	<10mA	<10mA
Operating Temp	-20°C - 60°C	
Weight	200g	
Warranty	2 years	

Kit Contents

1. Remote Head Assembly
2. Main Unit
3. Remote Head Knob
4. Remote Head Nut
5. Remote Head Bezel
6. RJ45 Remote Head Cable (1 m)
7. Main Unit Wires & Connector (0.5m)



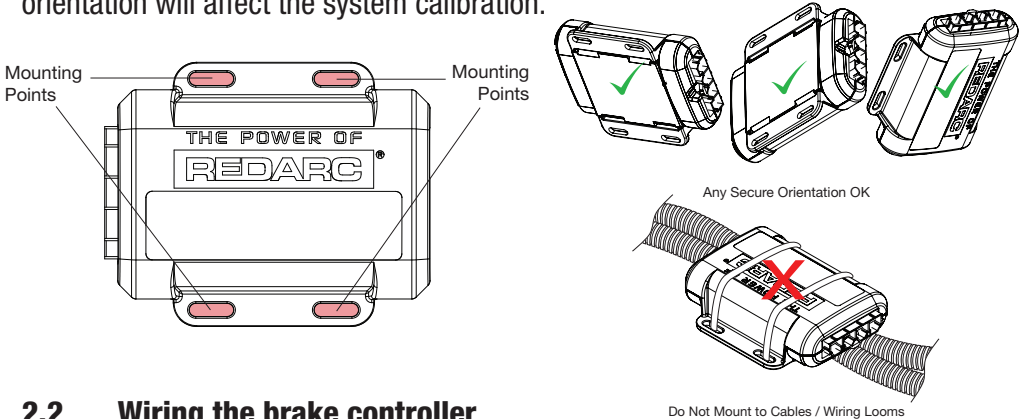
Dimensions & Connection



2.1 Mounting the main unit

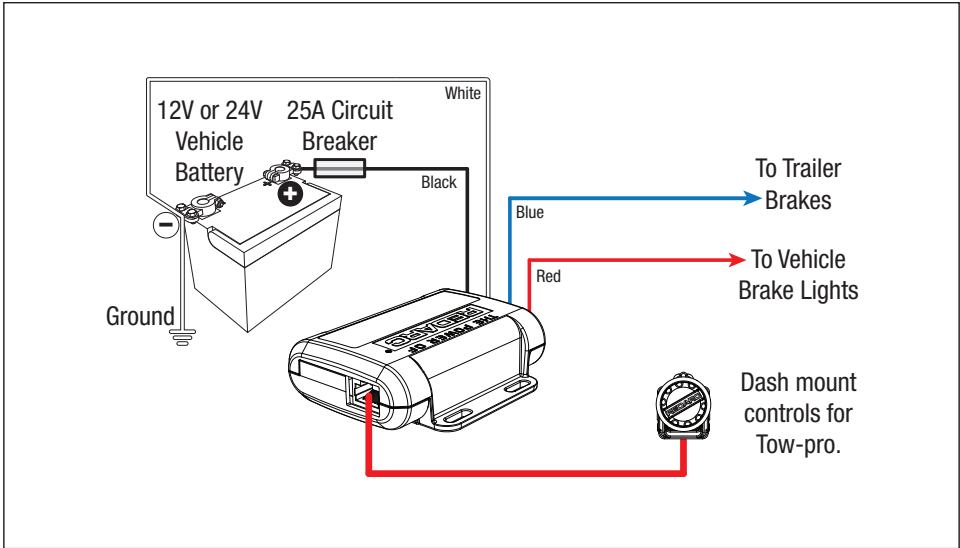
The Tow-Pro™ should be mounted inside the vehicle using either M4 screws or other secure fitting methods at the mounting points shown in the diagram below. It is recommended to mount the unit in a location which allows access to the intended remote head location.

The Tow-Pro™ can be mounted in any orientation as long as the installation is secure and the main unit cannot move or change orientation once installed. A change of orientation will affect the system calibration.



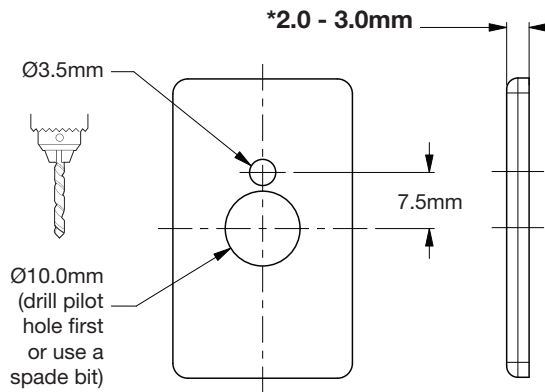
2.2 Wiring the brake controller

NOTE: Always refer to vehicle manufacturer specifications regarding the correct connection point for the brake light signal (RED) wire.



2.3 Mounting the remote head

The Tow-Pro™ remote head is designed to be mounted at a distance from the main unit, allowing for a neat, convenient installation and not impeding on lower leg airbags or driver leg room. The Tow-Pro™ remote head is designed to be mounted on or around the vehicle dashboard and when installed correctly complies with Australian Design Rule (ADR) 21, which sets requirements for devices mounted on the dashboard. The Tow-Pro™ remote head can be mounted directly to the dashboard, to the centre console or through a spare knock-out switch panel and requires only two holes to be drilled as per the below diagram.

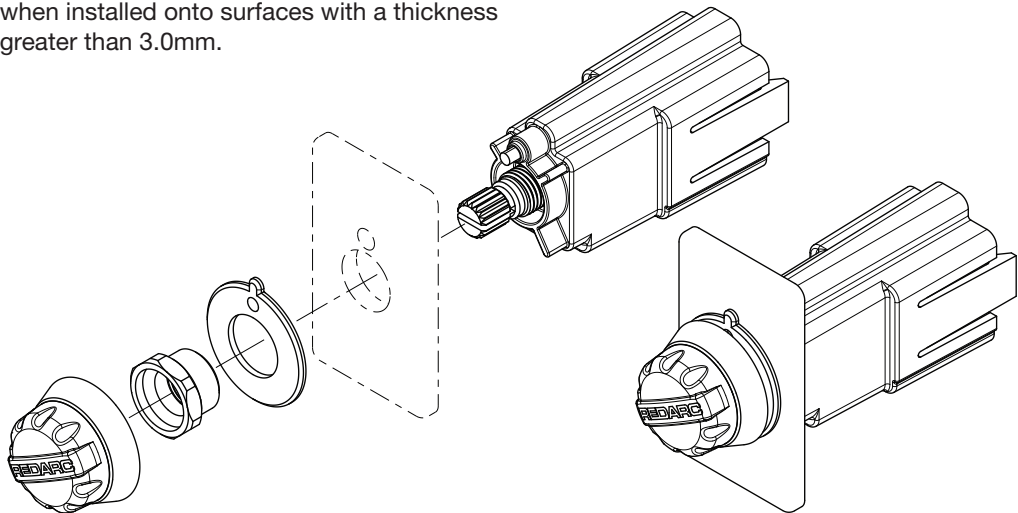


***NOTE:** Ensure Push button activates correctly when installed onto surfaces with a thickness greater than 3.0mm.

Applying the Knob

Turn shaft fully anti-clockwise

Apply knob with '0' aligned with the level marker on the bezel.



2.4 Testing your Install

Testing your vehicle wiring is best done by connecting a test light to the brake light output, pushing the manual override and having someone check that the vehicle brake lights and the test lamp both light up. If this test is successful, connect the trailer and begin the calibration process.

NOTE: Conduct the calibration process on a sealed, smooth, quiet road. If necessary set to User Controlled mode until a suitable location for calibration is reached.

2.5 Calibration

The 3-Axis accelerometer in the Tow-Pro™ allows the unit to measure acceleration in any direction which means the unit can be installed in any orientation. In order for the unit to work properly, after install the unit must be calibrated to the normal direction of braking.

Once the vehicle is switched ON and Automatic mode is selected, the LED on the remote head will flash 3/4 of a second BLUE and 1/4 of a second GREEN indicating that the unit is out of calibration. To calibrate the unit simply begin driving with your trailer attached.

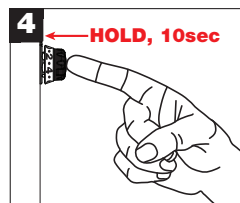
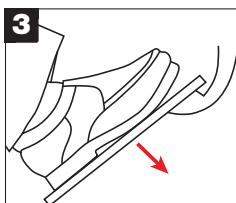
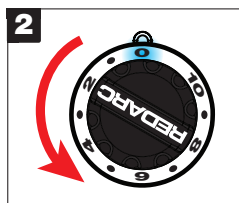
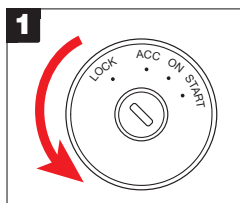
NOTE: During the calibration process the brakes will be applied by the Tow-Pro™ unit, this may cause the trailer brakes to lock momentarily.

Once the vehicle is travelling over 10km/h and after about 20 seconds the unit will calibrate itself and the LED will turn a solid BLUE colour whilst driving, indicating that calibration is complete. Calibration is best performed on a flat, smooth, quiet road. If necessary set the unit to User Controlled mode until a suitable location for calibration is reached.

If the installation is modified, Redarc recommend that the unit be re-calibrated. The unit can be put into calibration mode manually by following these steps:

1. Turn the engine OFF (with ignition ON if required for brake lights)
2. Set the knob to 0
3. Apply and hold the foot brake
4. Apply and hold the knob (manual override) for approx 10 seconds

Once this sequence is completed successfully, the unit will flash to indicate that it is out of calibration, the unit is now ready to be re-calibrated.



3.1 Operating Modes

The Tow-Pro™ offers two modes of operation - **Automatic** and **User Controlled**. On the first application of power to the black wire, the Tow-Pro™ will start-up in User Controlled mode.

NOTE: It is important to consider the road surface and conditions when you are selecting your mode and level setting. When changing conditions we advise to review your controller settings.

NOTE: Changing modes can only be completed with the trailer connected.

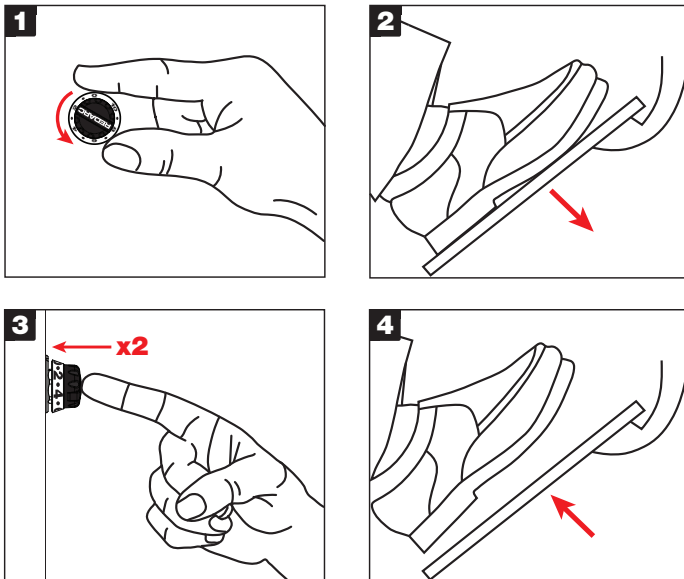
NOTE: Ensure the vehicle has come to a complete stop before beginning the mode change process.

Changing between modes requires the user to complete the following process:

1. Set the knob to 0
2. Apply vehicle brakes
3. Double-click the knob (i.e. two pushes within 1s) to toggle the mode
4. Release vehicle brakes

NOTE: Ensure you reset the dial to an acceptable braking level after changing modes.

Everytime the vehicle is turned on, the Tow-Pro™ will start up in the mode that was last selected, providing the black wire has remained connected to power/battery positive.



3.1.1 Automatic Mode (Blue LED)

If the status indication LED on the control knob is glowing BLUE, the Tow-Pro™ is currently in **Automatic Mode**. When operating in Automatic Mode, the Tow-Pro™ will apply the trailer brakes at a level proportional to the vehicle braking level. Simply put, the harder you brake, the harder the trailer will brake. This mode is designed for highway travelling or everyday use and requires minimal input from the user whilst travelling.

The braking level can be adjusted to suit varying trailer loads, braking requirements or user comfort by adjusting the gain control knob on the remote head. The middle point, level 5, should be used as a starting point, please refer to section 3.5 for more information.

Should a lighter braking level be required, turning the gain control knob below 5 will reduce the trailer braking force relative to the vehicle braking level. Similarly, turning the gain control knob above level 5 will increase the trailer braking force relative to the vehicle braking level.

The braking force will be indicated by the LED changing to a shade of RED when the brakes are applied. The higher the braking force, the more RED the LED will glow.

3.1.2 User Controlled Mode (Green LED)

If the status indication LED on the control knob is glowing GREEN, the Tow-Pro™ is currently in **User Controlled Mode**. When operating in User Controlled Mode, the Tow-Pro™ will apply the trailer brakes to the level set by the user on the gain control knob. The gain control level, 0 to 10, will set the brakes from **Zero** trailer braking to **Full** trailer brake application. This mode is designed for offroad or precision use and may require frequent attention from the user.

The braking level can be adjusted to suit varying trailer loads, braking requirements or user comfort by adjusting the gain control knob on the remote head. The lower end of the scale, below level 5, should be used as a starting point and adjusted accordingly once braking requirements are established.

Should a lighter braking level be required, turning the gain control knob to a lower number will reduce the trailer braking force. Similarly, turning the gain control knob to a higher number will increase the trailer braking force.

The braking level will be indicated by the LED changing to a shade of RED when the brakes are applied. The higher the braking level, the more RED the LED will glow.

3.2 Manual Override

Pressing the gain control knob whilst driving will apply the manual override brake. The manual override brake will apply the trailer brakes only and will also apply the vehicle brake lights, trailer brake lights and will turn the LED indicator a shade of RED. The manual override is designed to be used when the trailer brakes need to be applied without the vehicle brakes, such as correcting trailer 'sway' whilst travelling.

In Automatic mode the manual override will apply the trailer brake to a level equivalent to 'light' vehicle braking whilst still retaining the proportional braking characteristics of the Automatic mode.

In User Controlled mode the manual override will apply the trailer brakes to the level set on the gain control knob.

In both modes the braking force can be adjusted by turning the gain control knob, either higher or lower, whilst applying the manual override brakes.

3.3 Electric / Hydraulic Brakes

The Tow-Pro™ is designed to operate both electric and electric/hydraulic braking systems.

The unit requires no user input to select the electric/hydraulic mode.

The Tow-Pro™ is not suitable for electric/hydraulic systems which only operate from their own dedicated brake control system.

The Tow-Pro™ will operate electric/hydraulic trailer brakes in either Automatic or User Controlled modes.

NOTE: Always refer to manufacturer specifications for your Electric / Hydraulic Braking system prior to installation and usage of the Tow-Pro™.

3.4 24V Vehicle Systems

The Tow-Pro™ is designed to operate 12V trailer brakes from both 12V and 24V vehicle electrical systems.

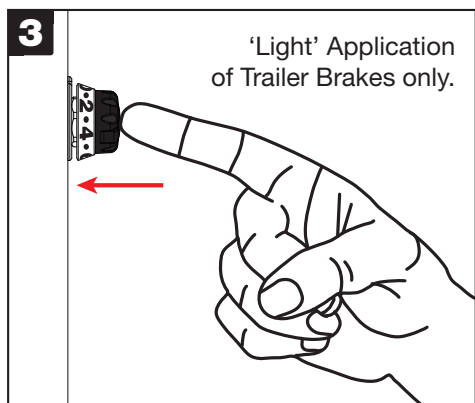
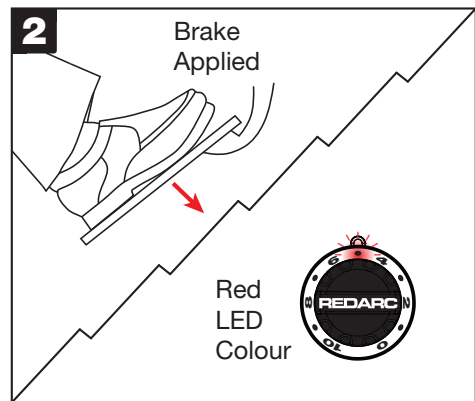
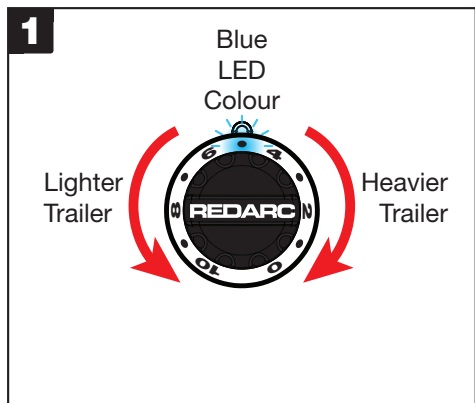
The acceptable voltage input range is between 9V and 32V.

The Tow-Pro™ will operate from a 24V electrical system without the need for other external devices and should be installed as per the standard 12V installation.

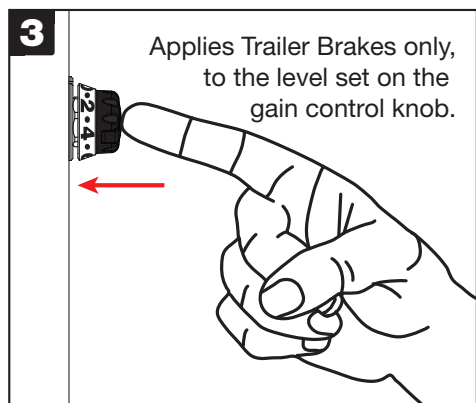
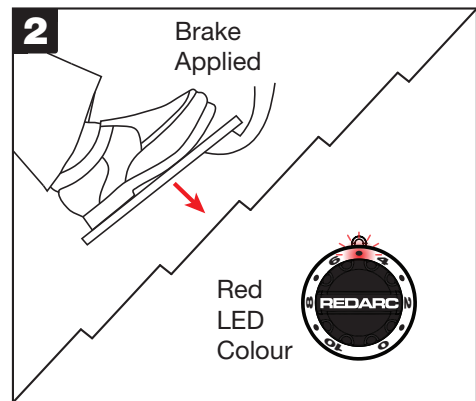
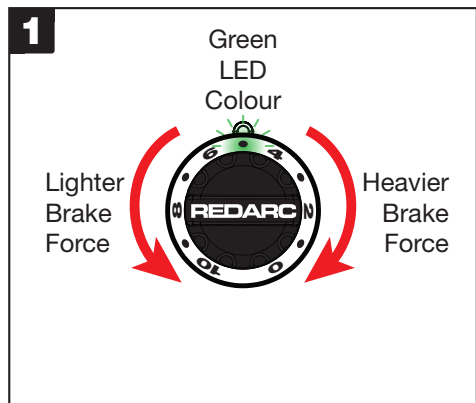
For 24V installation, refer to section 2.2 'Wiring the brake controller'.

3.5 Visual User Guide

Automatic Mode



User Controlled Mode



3.6 LED Indication

The Tow-Pro™ will indicate both Mode and Fault Condition through colour and flash sequences of the LED indicator. The table below shows how the Tow-Pro™ will indicate Modes and Fault Conditions.

NOTE: LEDs will glow full brightness when gain control is adjusted or manual override is pressed. After release of the gain control knob the LED brightness will reduce. This is designed to be less intrusive on driver’s vision at night.

Status	Indication	
Mode	<i>Automatic</i>	<i>User Controlled</i>
Sleep Mode ¹	Blue Breathing on button push ²	
Trailer Connected	Solid Blue	Solid Green
Braking	Blue to Red ³	Green to Red ³
Out of Calibration	Blue/Green (75%/25% Duty Cycle)	
Limp Mode ⁴	Yellow followed by Red/Purple pulses ⁵	
Short Circuit (Coils)	Yellow with a Single Red flash	
Short Circuit (Brake Light)	Yellow with a Double Red flash	

- 1
- Sleep Mode occurs when there is no trailer connected to the vehicle.
- 2
- Breathing, as opposed to flashing, is the LED gradually getting brighter until its brightest point and then gradually dimming until off.
- 3
- The LED will vary between the Mode Colour (Blue or Green) and Red depending on the braking force.
- 4
- A limp mode occurs when there is a failure in the wiring or internally to the Tow-Pro. In this mode the unit will fall back to a safe brake application level.
- 5
- The sequence of Red/Purple pulses will indicate to a service technician the probable cause of the fault. Please contact a Redarc Approved service technician or Redarc Electronics.

Before each trip

It is important to ensure that your system is operating correctly before you set out. The following should be checked, along with standard mechanical maintenance, each time you attach your trailer:

- Correct brake light operation on both your vehicle and trailer
- Correct operation and setting of the electric brake controller
- Correct operation of your trailer brakes
- Check that your breakaway system is operating correctly and that the breakaway battery is healthy
- Ensure that the tow hitch, and safety chains and weight distribution systems are setup correctly

NOTE: Always ensure that any towing aids and systems are installed and operating as per manufacturer specifications and considering vehicle warranty conditions.

Periodically

It is important to have a qualified technician check the function of your trailer system on a periodic basis to ensure that everything is operating correctly. Redarc recommend that you visit a qualified technician before the beginning of each holiday season to ensure that any towing aids or systems are working correctly.

Other considerations

Please consider the below items whilst towing a trailer:

- Ensure that your vehicle is capable of towing the trailer
- Ensure that you adjust your driving style to allow more time to change lanes and brake
- Always remember that your electric brake controller is designed to supplement your vehicle brakes; do NOT use the Tow-Pro™ manual override in place of your vehicle foot brake
- Redarc recommend professional towing training before attempting to tow a trailer; companies such as Tow-Ed offer these services

Is the Tow-Pro approved to use with the AL-KO ESC?

Yes it is for units from manufacturing serial number 14080000-000 onwards. Please refer to the AL-KO website for actual listing.

Why have my trailer brakes locked on? / Why are my brakes applied when I take off?

The Tow-Pro™ is most likely attempting to calibrate. Wait approximately 10 seconds and try again. During the calibration process the brakes will be applied by the Tow-Pro™ unit, this may cause the trailer brakes to lock momentarily. Please see section 2.5 of this manual for more information.

How do I change from Automatic to User Controlled mode?

Please see section 3.1 of this manual.

Will it work with electric over hydraulic trailer brakes?

Yes, please see section 3.3 of this manual.

Can it be mounted in any orientation? How do I set the levelling of the main unit?

Yes, the unit can be installed inside the vehicle at any angle, provided it is firmly secured and in a location which allows access to the trailer plug wiring, brake light wiring and the intended remote head location. Please see sections 2.1 and 2.5 of this manual for more information.

My vehicle has shared tail/brake lights, will the Tow-Pro™ work OK?

Yes, the Tow-Pro™ is designed to operate correctly from both standard and shared tail/brake lights.

Where can I connect the RED wire?

To a 12V (ON)/0V (OFF) switched wire when brake pedal applied, refer to the vehicle manufacturer specifications for the correct location.

My caravan is 2.5 tons fully loaded, is the Tow-Pro™ strong enough to stop that much weight safely?

The controller is capable of supplying 3-axle setups at 12V and 2-axle setups at 24V input up to the maximum rated braking ability of the brakes. You must also ensure that your trailer brakes are adequate for the trailer load.

Can the remote head cable be extended?

Yes, the remote head cable is a standard RJ45 network cable and can be replaced by an off the shelf cable up to 5m in length.

Can the braking level of the manual over-ride be adjusted?

Yes, the manual override can be adjusted whilst it is being applied by turning the gain control knob. For more information on manual override please see section 3.2 of this manual.

Will my trailer brakes work while I am reversing?

The Tow-Pro™ is designed to apply the trailer brakes whether the vehicle is travelling forward or in reverse. The effectiveness of the brake application in reverse will depend on the mechanical design of your particular electric brake system.

I have a 2 axle trailer, is the Tow-Pro™ suitable for my trailer?

Yes, the Tow-Pro™ is designed to operate up to 3-axle trailers from a 12V input and up to 2-axle trailers from a 24V input.

Is there an adaptor for the Hayman Reese towbar wiring harness?

Yes, the adaptor cable is (EBRH-ACC-AL) and can be purchased from Redarc authorised resellers.

I lost the knob/nut/bezel, where can I get one?

The knob, nut or bezel can be purchased as spare parts from Redarc authorised resellers.

6 TWO YEAR PRODUCT WARRANTY

Over the last three decades our company has established a reputation as the power conversion specialist.

A 100% Australian-owned company, we have met the needs of customers in transport and other industries through exciting, innovative thinking.

We believe in total customer satisfaction and practice this by offering our customers:

- Technical advice free of jargon and free of charge
- Prompt turnaround of orders throughout Australia and globally
- Friendly, personalised, professional service and product support

In the unlikely event that a technical issue arises with a Redarc product, customers are encouraged to initially contact the Redarc Technical Support Team on (08) 8322 4848 or power@redarc.com.au for prompt and efficient diagnosis and product support.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

The benefits of this Warranty are in addition to other rights and remedies available at law in respect of the Products and shall not derogate from any applicable mandatory statutory provisions or rights under the Australian Consumer Law.

Redarc Electronics Pty Ltd aff the Redarc Trust trading as Redarc Electronics ("Redarc") offers a warranty in respect of its Products where the Products are purchased from an authorised distributor or reseller of Redarc by a person ("Purchaser"), on the terms and conditions, and for the duration, outlined below in this document ("Warranty").

1. In this Warranty, the term **Products** means:

- 1.1 all products manufactured or supplied by Redarc (excluding its solar products which are covered by Redarc's Solar Product Warranty); and
- 1.2 any component of or accessory for any product in clause 1.1 manufactured or supplied by Redarc.

Offer and duration of product warranties

2. Redarc warrants that its Products will be free, under normal application, installation, use and service conditions, from defects in materials and workmanship affecting normal use, for **2 years** from the date of purchase (**Warranty Period**).

3. Where a Product malfunctions or becomes inoperative during the Warranty Period, due to a defect in materials or workmanship, as determined by Redarc, then subject to further rights conferred by the Australian Consumer Law on the Purchaser, Redarc will, in exercise of its sole discretion, either:

- 3.1 repair the defective Product;
- 3.2 replace the defective Product; or
- 3.3 provide a refund to the Purchaser for the purchase price paid for the defective Product,

without charge to the Purchaser.

4. The warranty given by Redarc in clause 3 covers the reasonable costs of delivery and installation of any repaired or replaced Products or components of Products to the Purchaser's usual residential address notified to Redarc, together with the reasonable costs of removal and return of any Products determined by Redarc to be defective.

5. If the Purchaser incurs expenses of the nature referred to in clause 4 in the context of making a claim pursuant to this Warranty that is accepted by Redarc, the Purchaser will be entitled to claim for reimbursement of those expenses which Redarc determines, in exercise of its sole discretion, to be reasonably incurred, provided that the claim is notified to Redarc in writing at the postal address or email address specified in clause 21 and includes:

- 5.1 details of the relevant expenses incurred by the Purchaser; and
- 5.2 proof of the relevant expenses having been incurred by the Purchaser.

Exclusions and limitations

6. This Warranty will not apply to, or include any defect, damage, fault, failure or malfunction of a Product, which Redarc determines, in exercise of its sole discretion, to be due to:

- 6.1 normal wear and tear or exposure to weather conditions over time;
- 6.2 accident, misuse, abuse, negligence, vandalism, alteration or modification;
- 6.3 non-observance of any of the instructions supplied by Redarc, including instructions concerning installation, configuring, connecting, commissioning, use or application of the Product, including without limitation choice of location;
- 6.4 failure to ensure proper maintenance of the Product strictly in accordance with Redarc's instructions or failure to ensure proper maintenance of any associated equipment or machinery;
- 6.5 repairs to the Product that are not strictly in accordance with Redarc's instructions;
- 6.6 installation, repairs or maintenance of the Product by, or under the supervision of, a person who is not a qualified auto electrician or technician, or if non-genuine or non-approved parts have been fitted;
- 6.7 faulty power supply, power failure, electrical spikes or surges, lightning, flood, storm, hail, extreme heat, fire or other occurrence outside the control of Redarc;
- 6.8 use other than for any reasonable purpose for which the Product was manufactured;
- 6.9 any indirect or incidental damage of whatever nature outside the control of Redarc.

7. Warranty claims in respect of a Product must be made in writing to Redarc at the postal address or email address specified in clause 21 within the Warranty Period. Such claims must include the following:

- 7.1 details of the alleged defect or fault and the circumstances surrounding the defect or fault;
- 7.2 evidence of the claim, including photographs of the Product (where the subject of the claim is capable of being photographed);
- 7.3 the serial number of the Product, specified on the label affixed to the Product; and
- 7.4 proof of purchase documentation for the Product from an authorised distributor or reseller of Redarc, which clearly shows the date and place of purchase.

The return of any Products without the prior written instructions of Redarc will not be accepted by Redarc.

8. Without limiting any other clause in this Warranty, Redarc has the right to reject any Warranty claim made by a Purchaser pursuant to this Warranty where:

8.1 the Purchaser does not notify Redarc in writing of a Warranty claim within the Warranty Period;

8.2 the Purchaser does not notify Redarc in writing of a Warranty claim within 1 month of becoming aware of the relevant circumstances giving rise to the claim, so that any further problems with the Product are minimised;

8.3 the serial number of the Product has been altered, removed or made illegible without the written authority of Redarc;

8.4 the Purchaser is unable to provide proof of purchase documentation in accordance with clause 7.4 or evidence that the Product was properly installed and removed (if relevant), and that proper maintenance has been performed on the Product, by, or under the supervision of, a qualified auto electrician or technician, in accordance with the instructions of Redarc.

9. If the Product is found to be working satisfactorily on return to Redarc or upon investigation by Redarc, the Purchaser must pay Redarc's reasonable costs of testing and investigating the Product in addition to shipping and transportation charges. Where Redarc is in possession of the Product, the Product will be returned to the Purchaser on receipt of the amount charged.

10. Any replaced Products or components of Products shall become the property of Redarc.

11. Redarc may, in exercise of its sole discretion, deliver another type of Product or component of a Product (different in size, colour, shape, weight, brand and/or other specifications) in fulfilling its obligations under this Warranty, in the event that Redarc has discontinued manufacturing or supplying the relevant Product or component at the time of the Warranty claim, or where such Product or component is superior to that originally purchased by the Purchaser.

Other conditions of Warranty

12. If the Purchaser acquired a Product for the purpose of resupply, then this Warranty shall not apply to that Product.

13. In particular, the sale of a Product via an online auction, online store or other internet website by a party that is not an authorised distributor or reseller of the Product will be deemed to be a resupply within the meaning of the Australian Consumer Law and will render this Warranty void, as Redarc has no control over the storage, handling, quality or safety of Products sold by such persons.

14. A Purchaser shall only be entitled to the benefit of this Warranty after all amounts owing in respect of the Product have been paid.

15. While Redarc warrants that the Products will be free from defects in materials and workmanship in the circumstances set out in this Warranty, to the maximum extent permitted by law Redarc does not warrant that the operation of the Products will be uninterrupted or error-free.

16. To the maximum extent permitted by law, Redarc's determination of the existence of any defect and the cause of any defect will be conclusive.

17. Spare parts or materials for the Products are guaranteed to be available for a period of at least 2 years after purchase of the Products.

18. The agents, officers and employees of any distributor or reseller of the Products and of Redarc are not authorised to vary or extend the terms of this Warranty.

19. Redarc shall not be responsible or liable to the Customer or any third party in connection with any non-performance or delay in performance of any terms and conditions of this Warranty, due to acts of God, war, riots, strikes, warlike conditions, plague or other epidemic, fire, flood, blizzard, hurricane, changes of public policies, terrorism and other events which are beyond the control of Redarc. In such circumstances, Redarc may suspend performance of this Warranty without liability for the period of the delay reasonably attributable to such causes.

20. If a clause or part of a clause in this Warranty can be read in a way that makes it illegal, unenforceable or invalid, but can also be read in a way that makes it legal, enforceable and valid, it must be read in the latter way. If any clause or part of a clause in this Warranty is illegal, unenforceable or invalid, that clause or part is to be treated as removed from this Warranty, but the rest of this Warranty is not affected.

Redarc's contact details

21. Redarc's contact details for the sending of Warranty claims under this Warranty are:

Redarc Electronics Pty Ltd

23 Brodie Road (North), Lonsdale SA 5160

Email: power@redarc.com.au

Telephone: +61 8 8322 4848

WARNING

TOW VEHICLE AND TRAILER WEIGHTS AND SPECIFICATIONS MUST NEVER BE EXCEEDED. FAILURE TO ABIDE BY THE TOWING REGULATIONS, INCLUDING MAXIMUM LOADS, MAY RESULT IN A FINE, OR IN CASE OF AN ACCIDENT, REFUSAL OF THE INSURANCE CLAIM, AND THE POSSIBILITY OF FURTHER LEGAL ACTION.

IF THE TOW VEHICLE OR TRAILER'S MAXIMUM LOAD IS EXCEEDED, POLICE AND TRANSPORT AUTHORITIES HAVE THE POWER TO ORDER THE COMBINATION OFF THE ROAD UNTIL THE ISSUE IS CORRECTED. THIS MAY NECESSITATE LEAVING THE TRAILER ON THE SIDE OF THE ROAD WHILE A VEHICLE WITH SUITABLE TOWING CAPACITY IS SOURCED OR THE TRAILER LOAD IS REDUCED. PLEASE CONTACT YOUR LOCAL AUTHORITIES FOR FURTHER INFORMATION.

THE POWER OF **REDARC**®

Free technical assistance!

please contact

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